

METHOD AND SYSTEM FOR MODEL BASED CONTROL OF HEAVY DUTY GAS TURBINE

Abstract

A method and system of designing the operations and controls of a gas turbine, includes generating an operations model for the gas turbine including at least one objective function and defining operations and control constraints for the operations model of the gas turbine. An online dynamic optimizer/controller dynamically optimizes and controls operation of the gas turbine using model based control based on the operations model and the operations and control constraints. The model based control may include model predictive control.

Figures